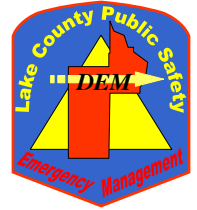


# Lake County

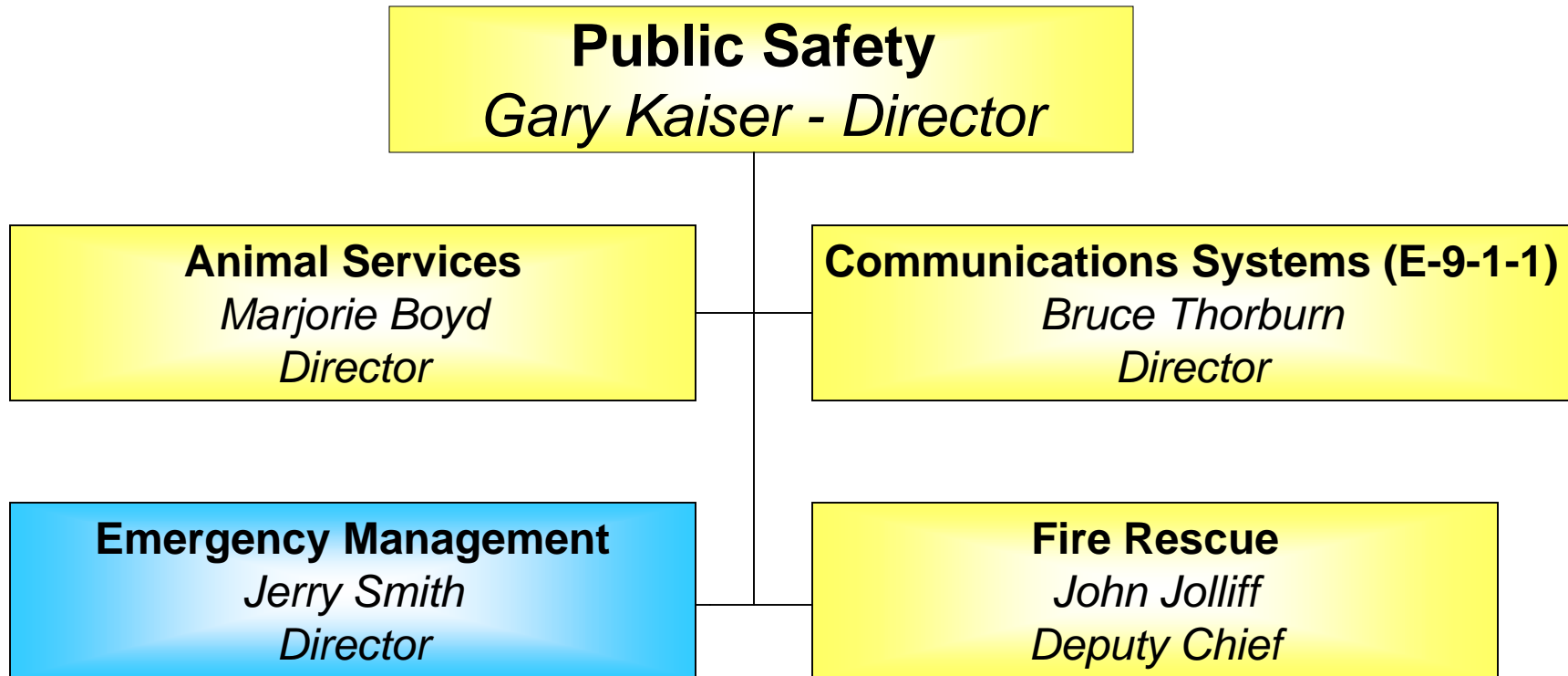
## Division of Emergency Management

### DISASTER PREPAREDNESS

- Organization & Mission
- Emergency Management Activities
- Emergency Operations Center
- Hurricanes
  - ❖ Terms
  - ❖ Tools
  - ❖ Personal Preparedness
- Questions



# Department of Public Safety





# Department of Public Safety

## Division of Emergency Management

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- **Organization:** Director, Planner, and Emergency Management Associate.
- **Budget:**
  - Grants = \$186,067
  - General Fund = \$119,864
  - Total = \$305,931
- **Mission:** Prepare and provide for the health, welfare, and safety of Lake County citizens from the effects of natural, technological, or man-made disasters. This is accomplished through planning, public education, and continuous refinement of emergency preparedness plans and programs.



# **Department of Public Safety**

## **Division of Emergency Management**

### **Hazards and Vulnerabilities in Lake County**

- Hurricanes
- Severe Winter Storms
- Tornadoes
- Hazardous Materials
- Wildfires
- Transportation Accidents
- Lightning
- Communicable Diseases
- Sinkholes
- + Human/Animal
- Drought
- Nuclear Power Plant
- Floods
- Terrorism



# Department of Public Safety

## Division of Emergency Management

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### Preparedness Planning

- Comprehensive Emergency Management Plan (CEMP)
  - Terrorism Annex
- Continuity of Operations Plans (COOP) and Continuity of Government (COG)
- Local Mitigation Strategy
- Hazardous Materials Analysis



# **Department of Public Safety**

## **Division of Emergency Management**

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### **Activities to enhance Lake County's Preparedness:**

- County Employee, volunteer, and citizen training
- Public Information & Public Education
- Training with HAZMAT, CERT, and SERT
- Anti-Terrorism Task Force
- ESF 8 (Health and Medical)
- Regional Domestic Security Taskforce
- Local Emergency Planning Committee
- Gov Hurricane Conference
- Statewide disaster exercises





# Emergency Operations Center

During major disasters serves as the central point for the collection of information and allocation of resources to meet the needs of disaster victims by collaborating with all stakeholders and coordinating efforts with other jurisdictions to facilitate a county wide response.



# Emergency Support Functions (ESF)

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- ESF 1: Transportation
- ESF 2: Communications
- ESF 3: Public Works and Engineering
- ESF 4: Firefighting
- ESF 5: Planning and Information
- ESF 6: Mass Care
- ESF 7: Resources
- ESF 8: Health and Medical
- ESF 9: Search and Rescue
- ESF 10: Hazardous Materials
- ESF 11: Food and Water
- ESF 12: Energy
- ESF 13: Military Support
- ESF 14: Public Information
- ESF 15: Volunteers and Donations
- ESF 16: Law Enforcement
- ESF 17: Animal Services
- ESF 18: Budget & Finance
- ESF 19: Impact Assessment
- ESF 20: Debris Management
- ESF 21: Economic Sustainability





# Hurricane Season

1 June – 30 November

## What is a Hurricane?

A hurricane is a tropical cyclone, which generally forms in the tropics and is accompanied by thunderstorms and a counterclockwise circulation of winds.



# Hurricane Season

## 1 June – 30 November

### Tropical Cyclones

- **TROPICAL DEPRESSION** An organized system of clouds and thunderstorms with a defined surface circulation and maximum sustained winds of 38 mph or less.
- **TROPICAL STORM** An organized system of strong thunderstorms with a defined surface circulation and maximum sustained winds of 39-73 mph.
- **HURRICANE** An intense tropical weather system of strong thunderstorms with a well-defined surface circulation and maximum sustained winds of 74 mph or higher.



# Hurricane Season

## 1 June – 30 November

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### Hurricane Watch

- The possibility of hurricane conditions within 36 hours.
- A Hurricane Watch in effect for your area should trigger your **family disaster plan.**



# Hurricane Season

## 1 June – 30 November

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### Hurricane Warning

- Sustained winds of at least 74 mph are expected within 24 hours
- You and your family should be in the process of completing proactive actions and deciding the safest location to be during the storm.



# Hurricane Season

1 June – 30 November

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## Hurricane Category 1

74-95 MPH

- Damage to unanchored mobile homes



# Hurricane Season

1 June – 30 November

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## Hurricane Category 2

96-110 MPH

- Damage to Building roofs, doors and windows
- Considerable damage to mobile homes
- Some trees blown down



# Hurricane Season

1 June – 30 November

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## Hurricane Category 3

111-130 MPH

- Structural damage to residences and utility bldgs
- Large trees blown down
- Mobile homes and poorly built signs destroyed





# Hurricane Season

1 June – 30 November

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## Hurricane Category 4

131-155 MPH

- Wall failures and complete roof structure failure
- Total destruction of mobile homes
- Trees, shrubs, and signs all blown down



# Hurricane Season

1 June – 30 November

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## Hurricane Category 5

156 MPH and UP

- Complete roof failure on homes and industrial buildings
- Some complete building failures
- Severe and extensive window and door damage



# Hurricane History

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- 50s-60s: Active Hurricane Period
  - 70s-95: Less Active Hurricane Period
  - 95 to current: Active Hurricane Period
- 1930-1965: 11 major Hurricanes hit Florida
  - 1965-2003: 1 major Hurricane hit Florida
  - 2004: 4 Hurricanes and 1 Tropical Storm hit Florida



# 2004 Hurricane Season

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Dr William Gray  
Colorado State University

- Prediction:
  - 14 Named Storms
  - 8 Hurricanes
    - 3 Major(Winds 111MPH >)
- Actual:
  - 12 Named Storms
  - 7 Hurricanes
    - 4 Major(Winds 111MPH >)



# 2005 Hurricane Season Prediction Dr William Gray Colorado State University

1 April 2004

- 13 Named Storms
- 7 Hurricanes
  - 3 Major (Winds 111MPH >)

31 May 2005

- 15 Named Storms
- 8 Hurricanes
  - 4 Major (Winds 111MPH >)

1 Aug 2005

- 20 Named Storms
- 10 Hurricanes
  - 6 Major (Winds 111MPH >)



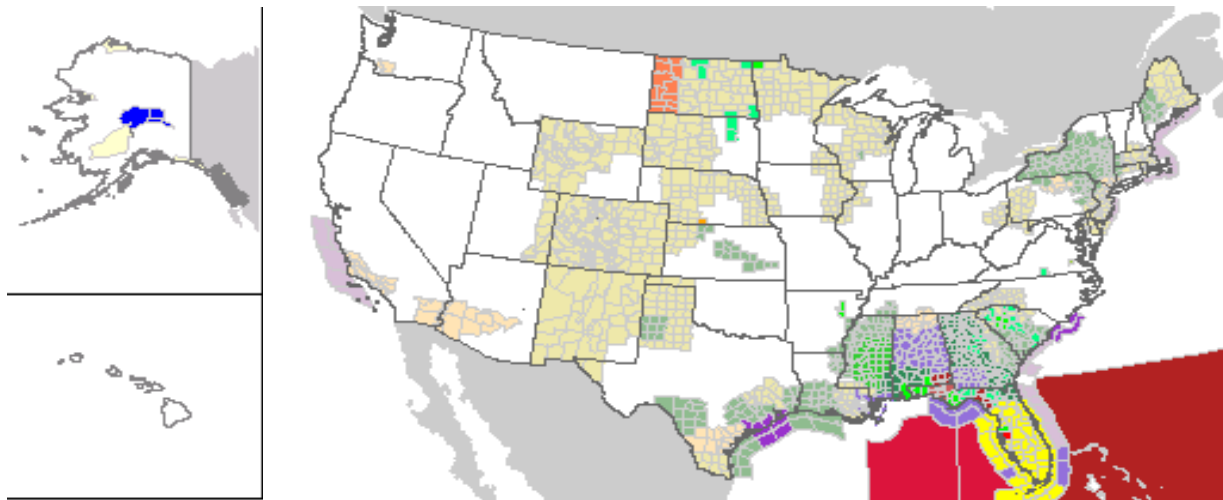
## Lake County ~~~~ Emergency Management



<http://www.weather.gov>

# National Weather Service

WORKING TOGETHER TO SAVE LIVES



Flash Flood Warning		Small Craft Advisory	
Severe Thunderstorm Warning		Marine Weather Statement	
Flood Warning		Short Term Forecast	
Non Precipitation Statement			
Flood Statement			
Heat Advisory			
Special Weather Statement			
Hazardous Weather Outlook			
This Is A Test			
Special Marine Warning			

### Forecast Model

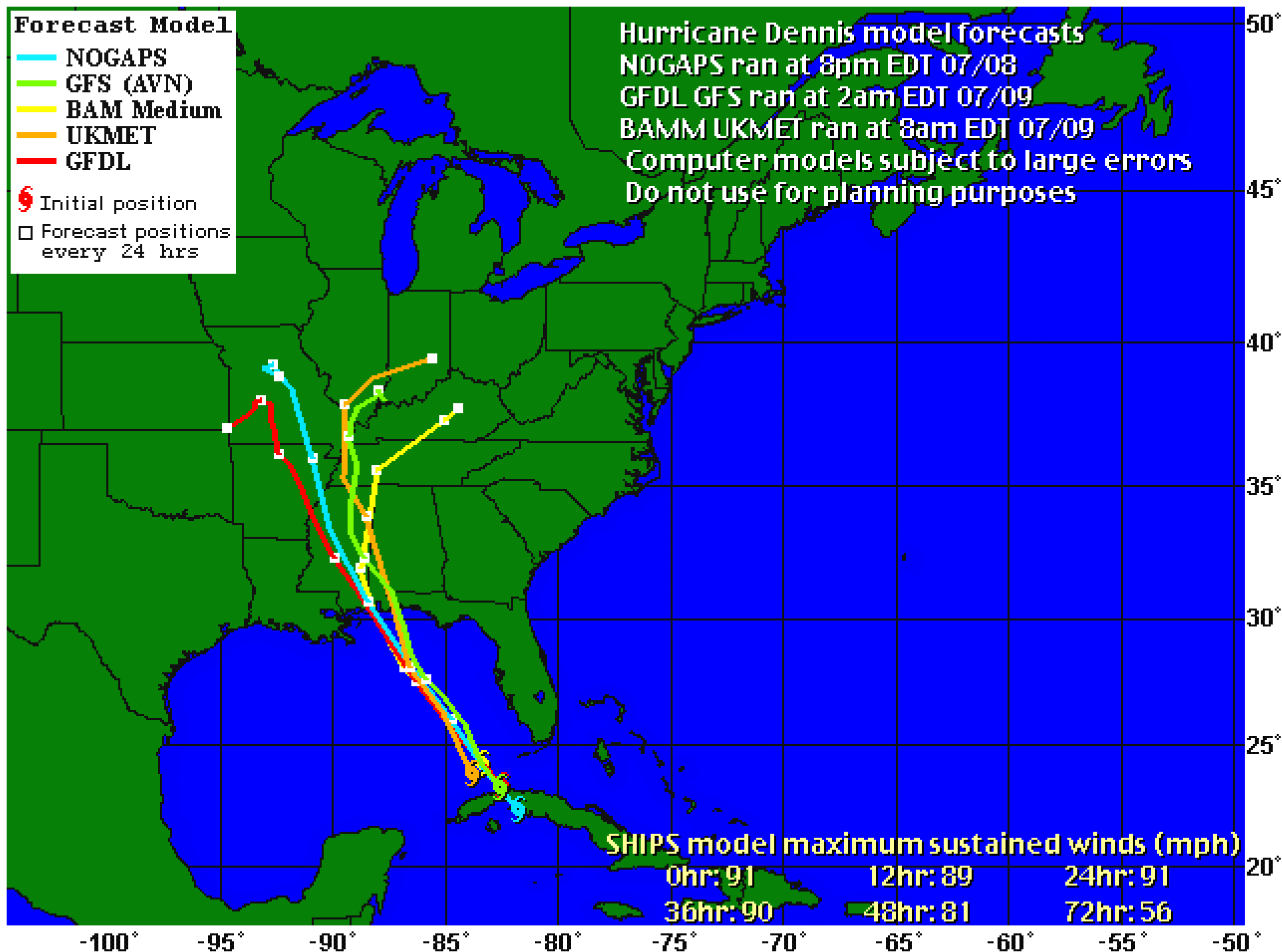
- NOGAPS
- GFS (AVN)
- BAM Medium
- UKMET
- GFDL

- Initial position
- Forecast positions every 24 hrs

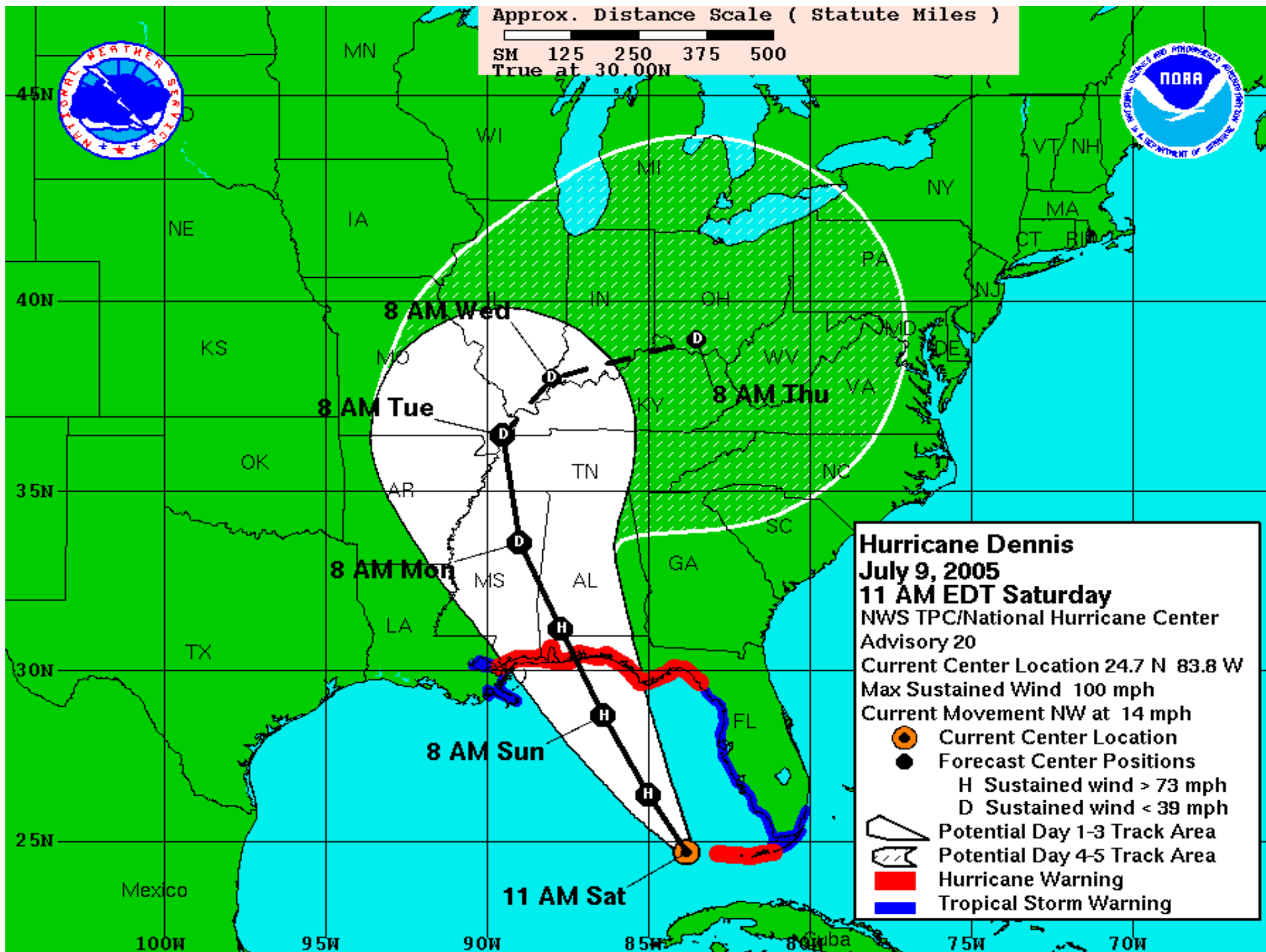
Hurricane Dennis model forecasts  
NOGAPS ran at 8pm EDT 07/08  
GFDL GFS ran at 2am EDT 07/09  
BAMM UKMET ran at 8am EDT 07/09  
Computer models subject to large errors  
Do not use for planning purposes

SHIPS model maximum sustained winds (mph)

0hr: 91	12hr: 89	24hr: 91
36hr: 90	48hr: 81	72hr: 56



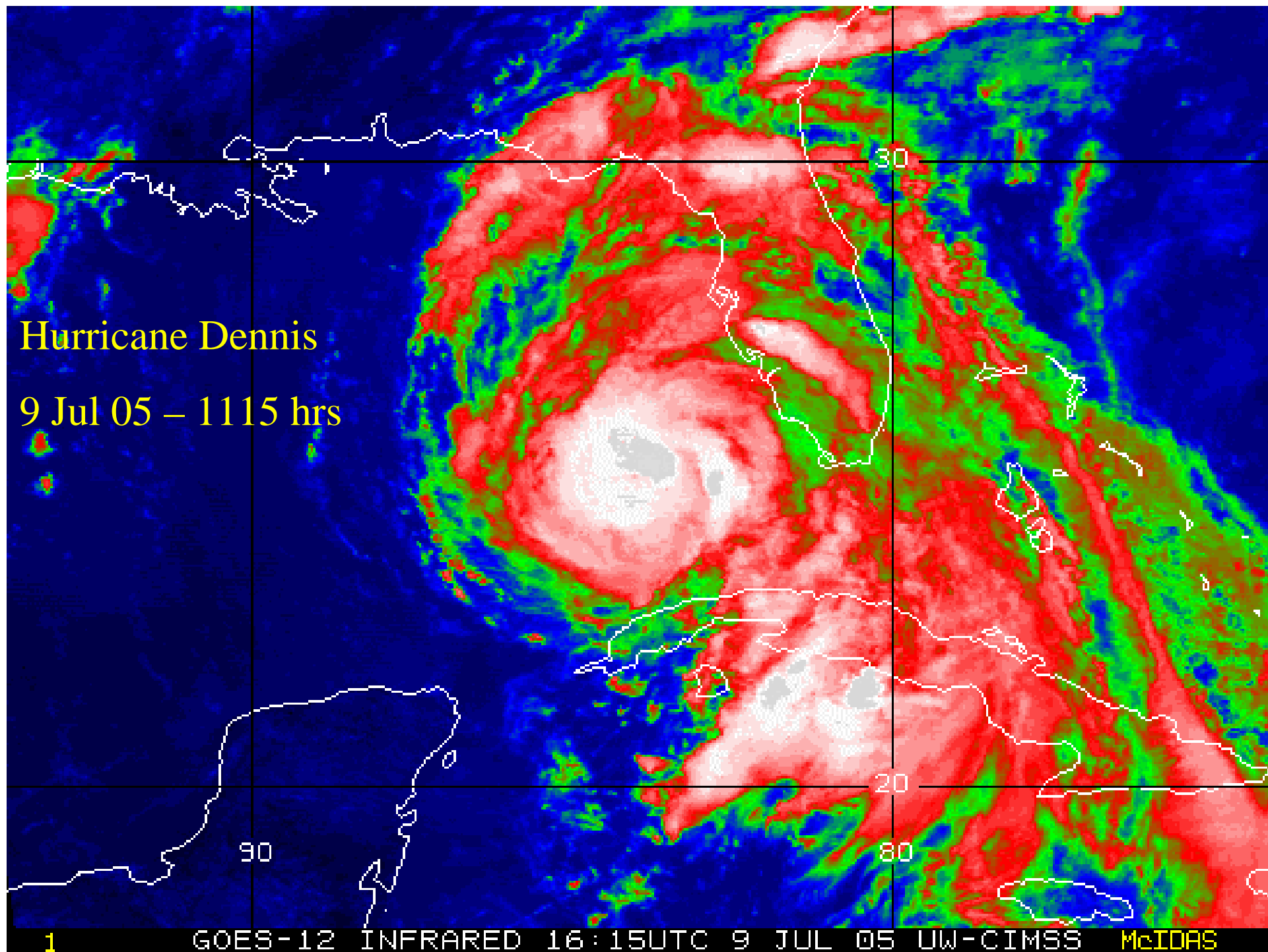




Hurricane Dennis  
9 Jul 05 – 1115 hrs



Hurricane Dennis  
9 Jul 05 – 1115 hrs





# Hazards of Tropical Storms & Hurricanes

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- **STORM SURGE** - is water that is pushed toward the shore by the force of the winds swirling around the storm.
- **INLAND FLOODING** - In the last 30 years, inland flooding has been responsible for more than half the deaths associated with tropical cyclones in the United States.
- **HIGH WINDS** - Hurricane-force winds can destroy poorly constructed buildings and mobile homes. Debris can become flying missiles in hurricanes.
- **TORNADOES** - Hurricanes can produce tornadoes that add to the storm's destructive power. Tornadoes are most likely to occur in the right-front quadrant of the hurricane.



# Post Storm Hazards

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- **DEBRIS** – Injuries can occur because of roadway obstruction, structural damage to buildings and falls while clearing hazards.
- **HEAT STRESS** – Weather is hot & humid, physical exertion or not acclimated results in dehydration.
- **FIRE** – Use of open flame for cooking and lighting along with power restoration to damaged structures.
- **LIVE WIRES** - Entwined with debris and in water of flooded areas.
- **HAZARDOUS MATERIALS** – Fumes from generators and damaged containers.



# Department of Public Safety

## Division of Emergency Management

### Family Disaster Plan

1. *Know Your Risk:*
  - *Flood Zone? – Mobile Home?*
2. *Have an Evacuation Plan:*
  - *Family/Friends*
  - *Hotel/Motel*
  - *Shelter*
  - *Evacuation Route*
  - *One contact with information*



# Department of Public Safety

## Division of Emergency Management

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### Family Disaster Plan

3. *Put together your Disaster Supplies Kit  
(72-96 hours):*
  - *Water*
  - *Food*
  - *Medicines*
  - *Clothing*
  - *Radio*
4. *Plan for your pets*



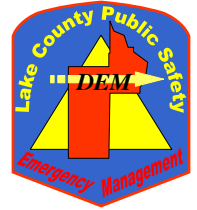


# Department of Public Safety

## Division of Emergency Management

### Family Disaster Plan

5. *Insurance:*
  - *Call Agent*
  - *Policy Number*
6. *Inspect and secure your home now:*
  - *Gable Ends/Roof*
  - *Garage Door*
  - *General House and Yard Maintenance*
7. *Install window protection*



# Department of Public Safety

## Division of Emergency Management

### Primary Hurricane Shelters

1. **Astatula Elementary**, 13925 Florida Ave., Astatula — pet friendly
2. **Leesburg Elementary**, 2229 South St., Leesburg — special needs and pet friendly
3. **Lost Lake Elementary**, 1901 Johns Lake Road, — special needs and pet friendly
4. **Pine Ridge Elementary**, 10245 County Road 561, Clermont
5. **Round Lake Elementary**, 31333 Round Lake Road, Mount Dora — pet friendly
6. **Spring Creek Elementary**, 44440 Spring Creek Road, Paisley
7. **Treadway Elementary**, 10619 Treadway School Road, Leesburg — pet friendly
8. **Umatilla Elementary**, 401 Lake St., Umatilla — special needs and pet friendly
9. **Villages Elementary**, 695 Rolling Acres Road, Lady Lake — special needs and pet friendly



# **Department of Public Safety**

## **Division of Emergency Management**

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### Information During Storms

- Local Media
  - Radio AM 790
  - Newspapers
  - TV Stations
- County website  
[www.lakegovernment.com](http://www.lakegovernment.com)
- Citizens Information Line 343-9732



# Hurricane Season

1 June – 30 November

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Questions ?  
and or  
Comments !



Lake County ~~~~ Emergency Management



www.lakegovernment.com

Lake County, Florida Government Home

# Lake County Government, Florida

Board of County Commissioners

Residents Visitors Business Government Departments How Do I...?

Earning Community Confidence Through Excellence in Service. Calendar : Directory of Services : Online Services : Register : Login

You are here: Home

Search [ ] go

**Most Requested**

- Area Resources
- Board Agendas/Minutes
- Calendar
- Comprehensive Plan 2025
- County Forms
- Departments and Offices
- Doing Business in Lake County
- Employment Opportunities
- Enjoying Lake County
- Lake County Flood Facts
- Lake County Blueways
- Media
- Phone Directory
- Term and Supply Contracts

**Your Government**

- Clerk of Courts
- Fasttrack Permitting
- Health Department
- Lake County Maps (GIS)
- Lake Soil & Water
- Lake-Sumter EMS
- Lake-Sumter MPO
- Library System
- MyFlorida.com
- Property Appraiser
- Schools
- Sheriff
- State & Local Gov. Websites
- Supervisor of Elections
- Tax Collector
- Water Atlas

**Information For**

- Residents
- Visitors
- Business
- Government

**Citizen Action Request Line**

Click here to send us a request through our Citizen Action Request Line

General Information

## Welcome to Lake County, Florida

Print Email Save Link

### LATEST NEWS

[Lake County Government, schools and municipalities to meet Oct. 10 to discuss school concurrency initiative](#)  
October 4, 2005

[Lake County traffic safety team, Eustis police team up to promote International Walk to School Day](#)  
October 3, 2005

[New Website Design for Lake County Library System](#)  
October 3, 2005

[Florida's only cornfield maze to open Oct. 1 in Lake County](#)  
September 30, 2005

[County residents can recycle electronic items free of charge](#)  
September 23, 2005

[County advises contractors of state building code changes](#)  
September 7, 2005

### HURRICANE Season 2005

Explore the online hurricane guide to learn more about the important initiatives that Lake County and its partnering agencies are undertaking to help protect the community as well as some safety tips to help safeguard your family. [More>](#)

[Hurricane Katrina Relief - How You Can Help](#)  
Department of Environmental Protection - Encouraging Fuel/Energy Conservation

### ABOUT LAKE COUNTY

From the 1840s when Capt. Melton Haynes trekked through Central Florida to settle in the heart of Lake County, many of those who have visited Lake County since have decided to stay — and for good reason. [more>](#)

### CALENDAR

Submit Event

October 2005

Upcoming Events

10/15/2005 - Mission Inn Men's Collegiate Golf

### Commissioners

[Meet the Lake County Board of County Commissioners](#)

### Picture This

[Some of the best golf courses in Central Florida are located right here in Lake County.](#)

### Site Updates

- 10/5/2005 - Board Agenda for Oct. 11 added
- 10/4/2005 - News Release: Lake County Government, schools and municipalities to meet Oct. 10 to discuss school concurrency initiative
- 10/4/2005 - Board Action for Oct. 4 added
- 10/4/2005 - Road Construction Project list updated
- 10/4/2005 - News Release: Lake County traffic safety team, Eustis police team up to promote International Walk to School Day